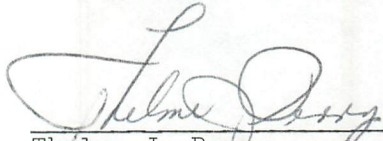


4500
FS-SO-2203-1.32
(Problem 2 RWUD-1978)

FINAL REPORT

INDUCTION OF FRUITING IN AN UNIDENTIFIED BASIDIOMYCETE,
A MYCANGIAL SYMBIONT OF THE SOUTHERN PINE BEETLE

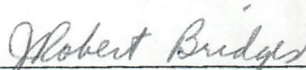
Prepared by:



Thelma J. Perry
Biological Lab Technician

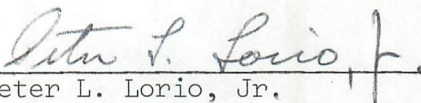
1/17/80
Date

Approved by:



J. Robert Bridges
Research Entomologist

1/17/80
Date



Peter L. Lorio, Jr.
Project Leader
RWU 2203

1/18/80
Date

Final Report SummaryThelma J. Perry, Alexandria, LAINDUCTION OF FRUITING IN AN UNIDENTIFIED BASIDIOMYCETE,
A MYCANGIAL SYMBIONT OF THE SOUTHERN PINE BEETLE

One of the mycangial fungi of the southern pine beetle, *Dendrotonus frontalis* Zimm. has been tentatively classified as a basidiomycete on the basis of the production of clamp connections. However, this fungus has never been observed to produce fruiting structures and, therefore, has not been further classified. The purpose of this study was to induce or stimulate the fungus to form fruiting bodies or spores. The fungus could then be identified on the basis of its fruiting structures.

The fungus was grown on 4 media, and mechanical injury was used to attempt to stimulate the fungus to sporulate. Colony characteristics varied on each of the four media. Rate of growth, type of aerial mycelia, and colony color and texture were affected. However, the fungus did not form fruiting structures or spores on any of the media. Mechanical injury did not induce fruiting. On one of the media the fungus produced a proliferating translucent mass of yeast-like cells similar to the growth form found in the mycangium.

This study is closed.